

Kolumna1	Version compatibility, standard compliance	Description
Cryptography		
DCRP1A - CryptOne		100% secure cryptographic system.
DSHA2-256	FIPS PUB 180-4, RFC 2104	Hash and HMAC Functions Accelerator.
DSHA2-384	FIPS PUB 180-4, RFC 2104	Hash and HMAC Functions Accelerator.
DSHA2-512	FIPS PUB 180-4, RFC 2104	Hash and HMAC Functions Accelerator.
ECDSA sign		ECDSA sign engine. Supported Elliptic Curves: NIST SECP P-256 R1, NIST SECP P-384 R1, Koblitz SECP P-256 K1, Koblitz SECP P-384 K1, Brainpool P-256 R1, Brainpool P-384 R1, Brainpool P-512 R1, other/custom curves optional support.
ECDSA verify		ECDSA verify engine. Supported Elliptic Curves: NIST SECP P-256 R1, NIST SECP P-384 R1, Koblitz SECP P-256 K1, Koblitz SECP P-384 K1, Brainpool P-256 R1, Brainpool P-384 R1, Brainpool P-512 R1, other/custom curves optional support.
ECC		High-performance solution for elliptic curve cryptography. Supported algorithms: Point multiplication, ECDSA signature generation, ECDSA signature verification. Supported Elliptic Curves: NIST SECP P-256 R1, NIST SECP P-384 R1, Koblitz SECP P-256 K1, Koblitz SECP P-384 K1, Brainpool P-256 R1, Brainpool P-384 R1, Brainpool P-512 R1, other/custom curves optional support
DAES	FIPS 197	Advanced Encryption Standard Cryptographic Co-Processor.
DAES XTS	FIPS 197, IEEE Std 1619-2007	Advanced Encryption Standard Cryptographic Co-Processor + easy SPI integration.
RISC-V		
DRV32IMZicsr	RV32I Base RISC-V ISA, M, Zicsr	32-bit RISC-V CPU with M, Zicsr extensions, and External Debug support.
DRV64IMZicsr	RV64I Base RISC-V ISA, M, Zicsr	64-bit RISC-V CPU with M, Zicsr extensions and External Debug support.
32-bit Microcontrollers		
Scalable & Royalty-Free 32-bit CPU		
D32PRO		D32PRO scalable & royalty-free 32-bit CPU.
16/32-bit Microcontrollers		
Quad-Pipelined Ultra High Performance		
DQ80251	80C51, 80C251	World’s Fastest 8051 IP Core. More than 75 times faster than the original.
CISC		
D68000-CPU32+	MC68008, MC68010, MC68020	16/32-bit Microprocessor.
D68000-CPU32	MC68008, MC68010, MC68020	16/32-bit Microprocessor.
D68000-BDM	MC68008, MC68010, MC68020	16/32-bit Microprocessor with BDM.
8-bit Microcontrollers		
Quad-Pipelined Ultra High Performance		
DQ8051XP	80C51	Revolutionary Quad-Pipelined Ultra High Performance Microcontroller.
DQ8051	80C51	Revolutionary Quad-Pipelined Ultra High Performance Microcontroller.
DQ8051CPU	80C51	Revolutionary Quad-Pipelined Ultra High Performance Microcontroller.
8051 Pipelined High Performance		
DP8051XP	80C51	High performance configurable microcontroller with advanced architecture.
DP8051	80C51	High performance configurable microcontroller with advanced architecture.
DP80C51	80C51	High performance configurable microcontroller with advanced architecture.
DP8051CPU	80C51	High performance configurable microcontroller with advanced architecture.
DT8051	80C51	World’s smallest 8051 IP Core. Ideal for power consumption sensitive applications.
80390 Pipelined High Performance		
DP80390XP	80C51, 80390	High performance MCU for applications requiring code space larger than 64 kB.
DP80390	80C51, 80390	High performance MCU for applications requiring code space larger than 64 kB.
DP80390CPU	80C51, 80390	High performance MCU for applications requiring code space larger than 64 kB.
68XX Microcontrollers		
DF6811E	68HC11E	8-bit FAST Microcontroller - approximately 4 times faster than the industry standard.
DF6811F	68HC11F	8-bit FAST Microcontroller - approximately 4 times faster than the industry standard.
DF6811K	68HC11K	8-bit FAST Microcontroller - approximately 4 times faster than the industry standard.
DF6808	68HC08	8-bit FAST Microcontroller - approximately 4 times faster than the industry standard.
DF6805	68HC05	8-bit FAST Microcontroller - approximately 4 times faster than the industry standard.
DF6803	MC6803	8-bit FAST Microcontroller - approximately 4 times faster than the industry standard.
DF6802	MC6802	8-bit FAST Microcontroller - approximately 4 times faster than the industry standard.
D6803	MC6803	8-bit Microcontroller.
D6802	MC6802	8-bit Microcontroller.
D68HC11E	68HC11E	Synthesizable SOFT Microcontroller.
D68HC11F	68HC11F	Synthesizable SOFT Microcontroller.
D68HC11K	68HC11K	Synthesizable SOFT Microcontroller.
PIC Improved Performance		
DRPIC166X	PIC16C6X	x4 - High Performance 8-bit RISC Microcontroller.
DRPIC1655X	PIC16XXX	x4 - High Performance 8-bit RISC Microcontroller.
DFPIC166X	PIC16C6X	x2 - 8-bit RISC Microcontroller.
DFPIC165X	PIC16C54, PIC16C55, PIC16C56, PIC16C57 and PIC16C58	x2 - 8-bit RISC Microcontroller.
DFPIC1655X	PIC16C554, PIC16C558	x2 - 8-bit RISC Microcontroller.

Automotive		
DSENT	SAE-J2716	Single Edge Nibble Transmission (SENT) protocol controller.
DPSI5 - NEW!	PSI5 protocol specification V2.3	Peripheral Sensor Interface 5 Communication controller. Now available in two versions – Basic and Safety-Enhanced (developed as ISO26262-10 Safety Element out of Context, ASIL-B ready design).
DCAN XL	ISO 11898-1:2024, CiA610-1, ISO26262, AUTOSAR and SAE J1939 support	Configurable CAN bus controller, backward compatible with Classical CAN, CAN FD, and CAN XL; available in two versions – Basic and Safety-Enhanced (developed as ISO26262-10 Safety Element out of Context, ASIL-B ready design).
DCAN FD Full	ISO 11898-1:2015, ISO26262, AUTOSAR and SAE J1939 support	Configurable CAN bus controller with Flexible Data-Rate, supports emotas CANopen FD stack; available in two versions – Basic and Safety-Enhanced (developed as ISO26262-10 Safety Element out of Context, ASIL-B ready design).
DCAN FD	ISO 11898-1:2015, ISO26262	Configurable CAN bus controller with Flexible Data-Rate, supports emotas CANopen FD stack; available in two versions – Basic and Safety-Enhanced (developed as ISO26262-10 Safety Element out of Context, ASIL-B ready design).
DLIN	LIN	LIN bus controller, available in two versions – Basic and Safety-Enhanced (developed as ISO26262-10 Safety Element out of Context, ASIL-B ready design).
Peripherals		
SMBUS & PMBUS		
DPSMBUS	SMBUS & PMBUS	Fully-featured module based on the I2C protocol, which supports SMBus and PMBus functionalities.
Direct Memory Access Controller		
DDMA		Four-channel Direct Memory Access Controller
I2C Bus Controllers		
DI2CMS		I2C Bus Interface – Master/Slave.
DI2CM		I2C Bus Interface - Master.
DI2CS		I2C Bus Interface - Slave with FIFO.
DI2CSB		I2C Bus Interface Slave - Base version.
USB 2.0		
DUSB2		USB 2.0 Device Controller.
DUSB2-ULPI		USB 2.0 Device Controller with ULPI interface.
Audio Platform		USB 2.0 Audio Devices Design Platform.
MS Platform		USB 2.0 Mass Storage Devices Design Platform.
HID Platform		USB 2.0 Human Interface Devices Design Platform.
I3C & I2S		
DI3CM-HCI		MIPI I3C Basic v1.1.1 specifications with Host Controller Interface v1.1 specification
DI3CS - NEW!		Target Device - MIPI® I3C Basic Specification v1.2 compliant
DI2S		Universal Sound Interface – Serial Audio Controller.
Networking		
DMAC-RMII	MAC	10/100 Mb Media Access Controller with RMII.
DMAC	MAC	10/100 Mb Media Access Controller.
SPI		
DESPI	eSPI	Enhanced Serial Peripheral Interface (eSPI) Master/Slave Controller.
DFSPI-H - NEW!	SPI, HYPERBUS™	HYPERBUS™ Memory Controller IP
DFSPI-P - NEW!	SPI, PSRAM	PSRAM Memory Controller IP
DFSPI	SPI, JESD251A, JEDEC SFDP, HyperBus™, xSPI, Xccela™	SPI FLASH Controller with Execute in place – XIP (SINGLE, DUAL and QUAD SPI Bus Controller with DDR / DTR support and optional AES Encryption), NOR & NAND Flash Memory Support
DOSPI	SPI	Serial Peripheral Interface – Master/Slave with SINGLE, DUAL, QUAD and OCTAL SPI Bus support.
DQSPI	SPI	Serial Peripheral Interface – Master/Slave with single, dual and quad SPI Bus support.
DSPI	SPI	Serial Peripheral Interface – Master/Slave.
UARTs		
D16950	OX16C950	Expanded UART with FIFO, Synchronous/Asynchronous Mode, extended Hardware/Software flow control, IRDA, Extended baud prescaler.
D16752	TL16C752	Configurable UART with FIFO, Hardware/Software Flow control.
D16750	TL16C750	Configurable UART with FIFO and hardware flow control.
D16550	TL16C550A	Configurable UART with FIFO.
D16450	TL16C450	Configurable UART.
D2692	SC26C92, SCC2692, SCN2681	Dual UART with FIFO.
D2698	SC2698	Octal UART Core with FIFO.
DUART		Tiny UART.
HDLC/SDLC controllers		
DMESCC	HDLC, UART, SPI, IBM® Bisync	Enhanced Multiprotocol Serial Communication Controller.
D8530		UART/HDL/SDLC.
DHDLC		HDLC/SDLC controller.
Smart Card Reader		
DSMART	ISO 7816-3/EMV4.2	ISO 7816 based smart card reader.
IrDA		
DIRDA	IrDA	IrDA Controller
Timers		
DUTS		DCD's Universal Timers System comprising: PWM, Timer 1, Timer 2, Timer 3, Real-Time Interrupt, Computer Operates Properly, Pulse Accumulator
Others		
D6840	6840	Programmable Timer Module.
D8254	82C54	Programmable Interval Timer.
D8255		Programmable Peripheral Interface.
D8259	82C59A	Programmable Interrupt Controller.